

PRODUCT-DETAILS

NF62E-13

NF62E-13 100-250V50/60HZ-DC Contactor Relay



General Information	on
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Extended Product Type	NF62E-13
Product ID	1SBH137001R1362
EAN	3471523100534

Catalog Description

NF62E-13 100-250V50/60HZ-DC Contactor Relay

39121500

Long Description

UNSPSC

NF contactor relays are used for switching auxiliary and control circuits. NF contactor relays include an electronic coil interface accepting a wide control voltage Uc min. ... Uc max. Only four coils cover control voltages between 24...500 V 50/60 Hz or 20...500 V DC. NF contactor relays can manage large control voltage variations. One coil can be used for different control voltages used worldwide without any coil change. NF contactor relays have built-in surge protection and do not require additional surge suppressors. - Poles: 8-pole contactor relays with a non-removable front-mounted auxiliary contact block (mechanically-linked auxiliary contacts compliant with Annex L of IEC 60947-5-1 and including the "Mechanically Linked" symbol on the contactor relay side) - Control Circuit: AC or DC operated - Accessories: a wide range of Accessories is available.

Classifications Object Classification Code ETIM 4 EC000196 - Contactor relay ETIM 5 EC000196 - Contactor relay ETIM 6 EC000196 - Contactor relay ETIM 7 EC000196 - Contactor relay

NF62E-13 2

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	113 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.32 kg
Package Level 1 EAN	3471523100534
Package Level 2 Units	box 18 piece
Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	11.52 kg
Package Level 3 Units	864 piece

Certificates and Declarations (Document Number)	
ABS Certificate	ABS_15-GE1349500-PDA_90682247
BV Certificate	BV_2634H24899B0
CB Certificate	CB_SE-89845
CCC Certificate	CCC_2011010303465426
cUL Certificate	UL_20180227_E252354_2_1
Declaration of Conformity - CE	1SBD250005U1000
DNV Certificate	DNV-GL_TAE00001BV-3
DNV GL Certificate	DNV-GL_TAE00001BV-3
EAC Certificate	EAC_RU C-FR ME77 B01006
Environmental Information	1SBD250152E1000
GL Certificate	DNV-GL_TAE00001BV-3
GOST Certificate	GOST_POCCFR.ME77.B06804.pdf
Instructions and Manuals	1SBC101027M6801
LR Certificate	LRS_C1400038
RINA Certificate	RINA_ELE240318XG
RMRS Certificate	RMRS_1802702280
RoHS Information	1SBD250005U1000
UL Certificate	UL_20130206-E252354-2-1
UL Listing Card	UL_E252354

Technical UL/CSA	
Tightening Torque	Auxiliary Circuit 11 IA
UL/CSA	Control Circuit 11 IA

Environmental	
Ambient Air Temperature	Close to Contactor for Storage -60 +80 °C Near Contactor for Operation in Free Air -40 +70 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	3000 m
Resistance to Vibrations acc. to IEC 60068-2-6	5 300 Hz 4 g closed position / 2 g open position

Following EU Directive 2011/65/EU

Resistance to Shock acc.

to IEC 60068-2-27

Shock Direction: A 30 K40

Shock Direction: B2 15 K40

Shock Direction: C1 25 K40

Shock Direction: C2 25 K40

Closed, Shock Direction: B1 25 K40

Open, Shock Direction: B1 5 K40

RoHS Status

Rated Frequency (f)	Technical	
Cantacts NC	<u> </u>	6
Rated Operational		2
Voltage Auxiliary Circuit 690 V Rated Frequency (f) Auxiliary Circuit 50 / 60 Hz Conventional Free-air acc. to IEC 60947-5-1, q = 40 °C 16 Kz Thermal Current (In) (220 / 240 V), 4 A Rated Operational (220 / 240 V), 4 A Current AC-15 (In) (24 / 127 V), 6 A Current AC-15 (In) (24 / 127 V), 6 A Rated Short-time for 0.1 s 140 A Withstand Current (Icw) for 0.1 s 140 A Waximum Electrical AC-15 (200 cycles per hour solvithing Frequency Waximum Electrical AC-15 (200 cycles per hour solvithing Frequency Current DC-13 (In) (24 V) 6 A / 144 W Current DC-13 (In) (24 V) 6 A / 144 W Current DC-13 (In) (24 V) 6 A / 144 W Current DC-13 (In) (25 V) 0.2 7 A / 68W Current DC-13 (In) (25 V) 0.2 7 A / 68W Current DC-13 (In) (26 V) 0.2 7 A / 68W Current DC-13 (In) (25 V) 0.2 7 A / 68W Current DC-13 (In) (26 V) 0.2 7 A / 68W Current DC-13 (In) (27 V) 0.2 7 A / 68W Current DC-13 (In) (28 V) 0.2 7 A / 68W Current DC-13 (I	Standards	IEC 60947-5-1 and EN 60947-5-1, UL 508, CSA C22.2 N°14
Conventional Free-air acc. to IEC 60947-5-1, q = 40 °C 16 A Thermal Current (Int)	Rated Operational Voltage	
Thermal Current (this) Rated Operational (220 / 240 V) 4 A Current AC-15 (to) (24 / 127 V) 6 A (250 V) 2 A (260 V)	Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Current AC-15 (I _e) (24 / 127 / 96 A (500 y) 2. A (500 y) 2. A (690 y) 2. A (690 y) 2. A (400 / 440 y) 3. A (400		acc. to IEC 60947-5-1, q = 40 °C 16 A
Withstand Current (Icw) for 1 s 100 A Maximum Electrical AC-15 1200 cycles per hour Switching Frequency DC-13 900 cycles per hour Rated Operational (125 V) 0.55 A, 69 W Current DC-13 (Ie) (25 V) 0.27 A, 68 W Current DC-13 (Ie) (25 V) 0.27 A, 68 W (27 V) 1.4 7 Zw (110 V) 0.55 A, 60 W (200 V) 0.27 A, 66 W (200 V) 0.27 A, 66 W (200 V) 0.15 A, 66 W (200 V) 0.15 A, 66 W (400 V) 0.15 A, 66 W (500 V) 0.13 A, 65 W (400 V) 0.15 A, 66 W (600 V) 0.14 A, 60 W (40) acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V Rated Impulse 6 kV Withstand Voltage (Uimp) Auxiliary Circuit 50 Hz 100 250 V 60 KZ Maximum Mechanical 50 Hz 100 250 V 60 KZ 60 KZ 60 KZ 60 KZ Maximum Mechanical 50 Hz 100 250 V 60 KZ	·	(500 V) 2 A (690 V) 2 A
Switching Frequency DC-13 900 cycles per hour Rated Operational (125 V) 0.55 A / 69 W Current DC-13 (le) (24 V) 6 A / 144 W (25 O V) 0.27 A / 68 W (28 V) 2.8 A / 134 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (200 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.13 A / 65 W (500 V) 0.13 A / 65 W (600 V) 0.14 A / 60 W 600 V 0.15 A / 60 W (10) acc. to IEC 60947-51 and VDE 0110 (Gr. C) 690 V Rated Impulse 6 kW Withstand Voltage (Uimp 6 kW Withstand Voltage (Uimp 50 Hz 100 250 V Rated Control Circuit 50 Hz 100 250 V Voltage (Uc) 50 Hz 100 250 V Operate Time Between Coil De-energization and NC Contact Colosing 13 95 ms Detween Coil Energization and NC Contact Closing 13 95 ms 8 between Coil Energization and NC Contact Copening 38 90 ms Connecting Capacity Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 2x 0.75 2.5 m²		for 0.1 s 140 A for 1 s 100 A
Current DC-13 (le) (24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (210 V) 0.27 A / 68 W (210 V) 0.27 A / 68 W (220 V) 0.27 A / 68 W (220 V) 0.27 A / 68 W (220 V) 0.27 A / 60 W (200 V) 0.13 A / 65 W (500 V) 0.13 A / 65 W (500 V) 0.13 A / 65 W (600 V) 0.14 A / 65 W (600 V) 0.15 A / 60 W Withstand Voltage (Uinp)) Maximum Mechanical Maximum Mechanical Maximum Mechanical Maximum Mechanical Maximum Mechanical Moverable Mov		AC-15 1200 cycles per hour DC-13 900 cycles per hour
(U ₁) acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V Rated Impulse Withstand Voltage (U _{imp}) Maximum Mechanical So Hz 100 250 V Voltage (U _c) So Hz / 60 Hz 100 250 V Voltage (U _c) Operate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil Energization and NC Contact Opening 11 98 ms Between Coil Energization and NC Contact Closing 38 90 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 38 90 ms Between Coil Energization and NC Contact Closing 40 95 ms Connecting Capacity Flexible with Insulated Ferrule 1/2x 0.75 2.5 Rigid 1/2x1 2.5 m² Connecting Capacity Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x1 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x1 2.5 m² Rigid 1/2x1 2.5 m² Rigid 1/2x1 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x1 2.5 m²	·	(24 V) 6 A / 144 W (250 V) 0.27 A / 68 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (220 V) 0.27 A / 60 W (400 V) 0.15 A / 60 W
Maximum Mechanical Switching Frequency Rated Control Circuit Voltage (Uc) So Hz 100 250 V Voltage (Uc) So Hz / 60 Hz 100 250 V DC Operation 100	(U _i) Rated Impulse	acc. to UL/CSA 600 V acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 690 V $6\mathrm{kV}$
Rated Control Circuit Voltage (Uc) So Hz 100 250 V 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V Between Coil De-energization and NC Contact Closing 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NC Contact Closing 40 95 ms Between Coil Energization and NC Contact Closing 40 95 ms Flexible with Insulated Ferrule 1/2x 0.75 2.5 Rigid 1/2x 1 2.5 m² Flexible with Insulated Ferrule 1/2x 0.75 2.5 m² Flexible with Insulated Ferrule 1/2x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm)	6000 cycles per hour
Voltage (Uc) 50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V DC Operation 100 250 V DC Operation 100 250 V DC Operation 100 250 V Operate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil Energization and NC Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 Auxiliary Circuit Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m² Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 m² Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	, ,	
Degrate Time Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms Between Coil Energization and NO Contact Closing 40 95 ms Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 Rigid 1/2x 1 2.5 m² Connecting Capacity Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m² Connecting Capacity Flexible with Ferrule 1/2x 0.75 2.5 Rigid 1/2x 1 2.5 m² Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m² Wire Stripping Length Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	Voltage (U _c)	50 Hz / 60 Hz 100 250 V 60 Hz 100 250 V
Auxiliary Circuit Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5 Rigid 1/2x 1 2.5 m² Connecting Capacity Control Circuit Flexible with Ferrule 1/2x 0.75 2.5 m² Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	Operate Time	Between Coil De-energization and NC Contact Closing 13 98 ms Between Coil De-energization and NO Contact Opening 11 95 ms Between Coil Energization and NC Contact Opening 38 90 ms
Control Circuit Flexible with Insulated Ferrule 1x 0.75 2.5 m² Flexible with Insulated Ferrule 2x 0.75 1.5 m² Rigid 1/2x 1 2.5 m² Rigid 1/2x 1 2.5 m² Wire Stripping Length Auxiliary Circuit 10 mm Control Circuit 10 mm Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	_ · · · · · · · · · · · · · · · · · · ·	Flexible with Insulated Ferrule 2x 0.75 1.5 Flexible with Insulated Ferrule 1x 0.75 2.5
Degree of Protection acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20		Flexible with Insulated Ferrule 1x $0.75 \dots 2.5 \text{ m}^2$ Flexible with Insulated Ferrule 2x $0.75 \dots 1.5 \text{ m}^2$
acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20	Wire Stripping Length	Auxiliary Circuit 10 mm Control Circuit 10 mm
	Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
	Terminal Type	• • •

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	110.5 mm
Product Net Height	86 mm
Product Net Weight	0.32 kg

Popular Downloads	
Instructions and	1SBC101027M6801
Manuals	

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Categories

 $\textbf{Low Voltage Products and Systems} \rightarrow \textbf{Control Products} \rightarrow \textbf{Contactors} \rightarrow \textbf{Block Contactors}$

